



Air Management Study Group Quarterly Meeting

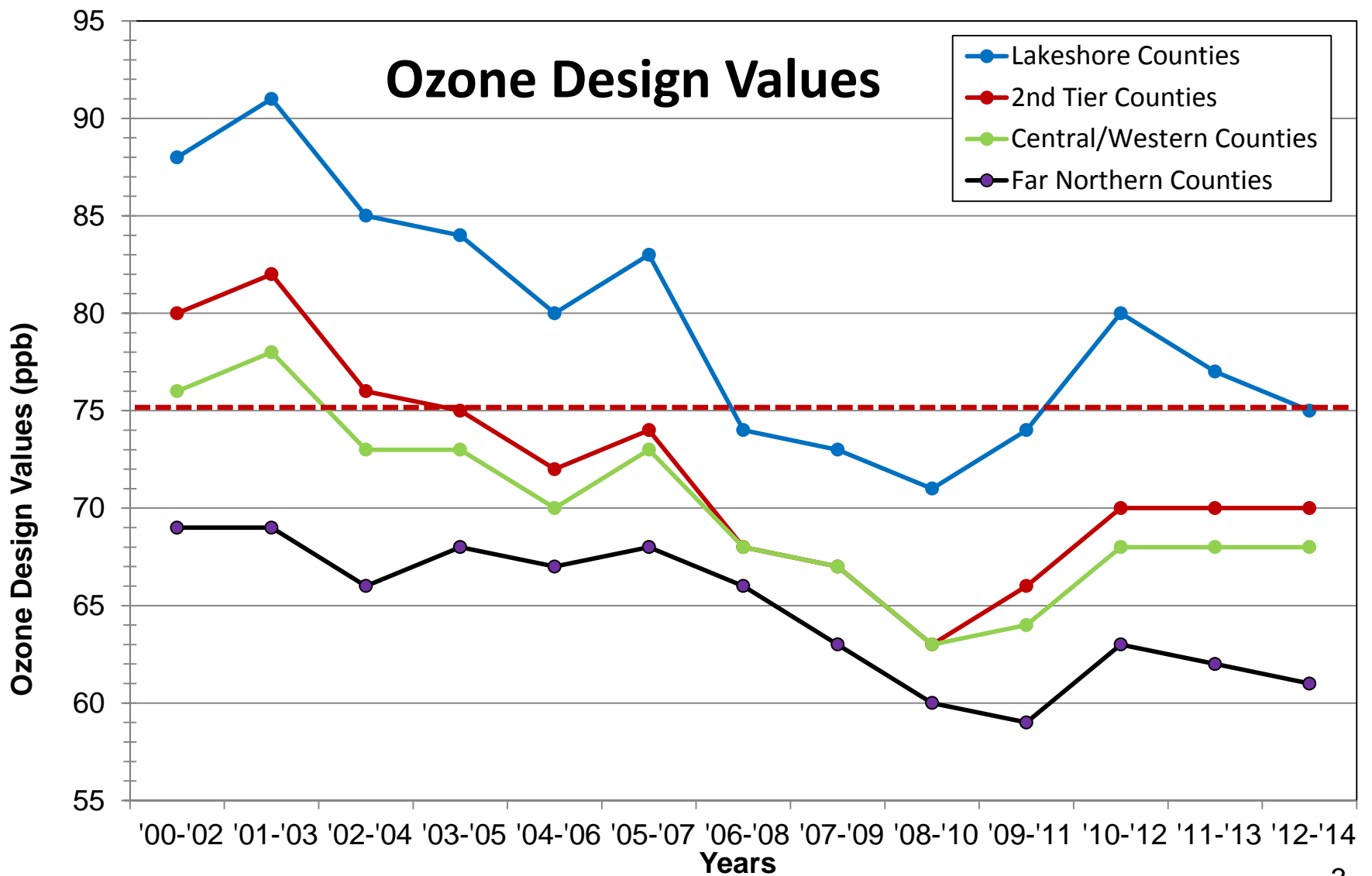
Madison
May 28, 2015



2008 Ozone Standard Implementation Transport

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2008 Ozone Standard Implementation - Transport

- States are engaging in voluntary multistate discussions regarding ozone transport
- Focus: having EGUs run installed NO_x controls
- EPA engaged, but letting states lead the way
- EPA is also expected to propose a transport rule for 2008 ozone NAAQS this fall
 - Likely to follow the CSAPR model
 - WI preliminarily identified as being contributor to Allegan, MI

2008 Ozone Standard Implementation - Transport

- Dec 2013 - Eight eastern states formally petitioned EPA under CAA Sec. 176A to have nine additional upwind states included in the Ozone Transport Region (OTR)
 - Includes MI, IL, IN – but not WI
 - EPA has until June 2015 to act on petitions
 - Likely to see wait and see where these voluntary discussions go

2008 Ozone Standard Implementation - Other

- WI has requested one-year extension of attainment date for Sheboygan County nonattainment area (to Jul 2016)
 - Allows 2015 season to be considered for attainment
- Greater Chicago metro nonattainment area (including partial Kenosha County) is on track for “bump up” from “Marginal” to “Moderate” NAA status by February 2016
 - Will require three-state area to develop a modeled attainment demonstration to show attainment by Jul 20, 2018 (e.g., based on 2015-17 data)
 - LADCO will provide important forum for technical and policy work
 - Transport discussions will have an impact on this

2008 Ozone Standard Implementation - Other

- Moderate nonattainment area requirements:
 - Meet all marginal area requirements (including vehicle I/M)
 - Impose RACT on all major sources emitting more than 100 tons per year for categories where EPA has issued control technique guidelines describing RACT
 - Require 1.15 to 1 VOC offsets
- Kenosha Special Purpose Monitor (SPM):
 - NAAQS site is at Chiwaukee, but a site has operated just off Highway 31 (~3 miles inland) for 2 years
 - DNR obtained written permission to continue to operate the Kenosha – WT site as a SPM
 - Sheboygan – Haven (2nd, inland site) will operate similarly

2015 Ozone Standard Status

- Current NAAQS is 75 ppb
- EPA has court-ordered deadline to finalize revised standard by Oct 1, 2015
- EPA proposed a range of 65-70 ppb and took comment on range of 60-75 ppb. EPA also took comment on numerous implementation issues (e.g., monitoring season).
- Key milestones (anticipated):
 - Nonattainment designations by Oct 2017
 - Infrastructure SIPs due Oct 2018
 - Attainment plans due by 2020
 - Attainment dates 2020-2023 (marginal-moderate areas)



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Rules Update

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AM 24-12 – Permit Streamlining Rule

- March 2015 - Hearings held and comments received on rule
- DNR is proposing no substantive changes to rule language
- June 24, 2015 - Final rule presented to the Natural Resources Board for adoption
- Next steps:
 - Final rule submitted to Governor for approval
 - Report prepared for the Legislature
 - Legislature holds hearings
- Target effective date - December 2015

AM 08-11 – 1-hour NO₂ and SO₂ NAAQS

Proposed rule to adopt the EPA-promulgated 1-hour National Ambient Air Quality Standards for SO₂ and NO₂ into ch. NR 404, and incorporate the corresponding federal monitoring requirements into ch. NR 484.

- April 2015 – Board approved proposed rule for hearing
- May 21, 2015 – Held public hearing
- Next steps:
 - Address any public comments
 - Prepare proposed final rule for adoption
- Target effective date - September 2016

AM 15-14 – Consistency with US EPA Rules

Proposed rule to make changes in ch. NR 405 to assure consistency with federal PSD rules, repeal stage 2 vapor recovery, and adopt PM2.5 increment into ch. NR 404.

- Next steps:
 - Prepare draft rule language
 - Solicit information on economic impacts
 - Prepare an Economic Impact Analysis and Fiscal Estimate
- Target effective date - March 2017

AM 07-15 – Annual PM2.5 NAAQS

Proposed rule to incorporate the annual PM2.5 National Ambient Air Quality Standards into ch. NR 404.

- Scope statement drafted and moving through process
- Next steps:
 - Prepare draft rule language
 - Solicit information on economic impacts
 - Prepare an Economic Impact Analysis and Fiscal Estimate
- Target effective date – April 2018



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Tribal Class I Implementation

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Class I Areas In and Near Wisconsin



Potawatomi (FCPC) Air Quality Related Values

[AQRV and threshold review completed May 1, 2015]

- **Aquatic Systems and Water Quality**

- *Sulfur and Nitrogen to protect against acidification*
- *Mercury and Sulfur to protect against mercury methylation*

- **Visibility**

- *Haze*

- **Vegetation**

- *Ozone*

Aquatic Systems and Water Quality Thresholds

○ Acidification

- *Sulfur and Nitrogen (0.01 kg/ha/yr)*
- *Same as Rainbow Lake and other federal Class I areas*
- *Recognized August 2014*

○ Mercury Methylation

- *Sulfur (0.01 kg/ha/yr)*
- *Mercury (0.09 ug/m²/yr)*
- *Mercury threshold is first for a Class I area*

Visibility Threshold

- **Uniform Haze**
 - *0.5 deciview increase using CALPUFF (> 50 km)*
- **Layered Haze (plume color)**
 - *2.0 or less using VISCREEN; 1.0 or less using PLUVIEW II (< 50 km)*
- **Layered Haze (plume contrast)**
 - *0.05 or less using VISCREEN; 0.02 or less using PLUVUE II (< 50 km)*
- *Threshold is the same as federal Class I areas*
- *Recognized August 2014*
- *Rainbow Lake does not have Visibility AQRV*

Vegetation Threshold

- *Ozone monitored at Potawatomi site*
- *Three-year average 24 hour W126 ≥ 7.0 ppm-hr and N100 ≥ 4 for the months of June, July and August*
- *Both W126 and N100 values need to be exceeded to exceed the threshold*
- *Status of threshold to be updated annually in May*
- *Threshold has never been exceeded at FCPC site but has been exceeded along Lake Michigan shoreline*

Implementation: Determining Source Impacts

- **FCPC responsible for analysis within 100 km (62 miles)**
- **Q/D Screening Test**
 - *Emissions over distance*
 - *$Q/D < 10$ presumes no adverse impact*
 - *Only for sources greater than 50 km*
 - *Not used for mercury*
- **Mercury Off Ramps**
 - *Less than ½ lb. increase within 50 km*
 - *Less than 10 lbs. increase outside 50 km*
- **AQRVs and thresholds can be changed every 10 years starting in 2019**



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SO₂ NAAQS Implementation

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1-Hour SO₂ Primary NAAQS

- July 2013 – EPA finalized first round of designations based on monitored violations.
 - WI: Partial Oneida County nonattainment area (Rhinelanders)
- May 2014 – EPA proposed SO₂ Data Requirements Rule (DRR)
 - Established 2 additional rounds of designations (2017 based on modeling, 2020 based on monitoring)
 - EPA preferred option thresholds: 1000 TPY in urban areas, 2000 TPY in rural areas
 - WI: approximately 14 sources, plus potential clusters (based on March 2015 data)
- March 2015 – EPA added new 2nd round of designations (“down payment” round) as result of consent decree
 - Areas associated with 69 power plants and newly monitored violations
 - WI: Columbia power plant and Brown County monitor (2012-14 data = 76 ppb design value)
 - Designations by July 2016
 - State has opportunity to provide additional data prior to designations

1-Hour SO₂ Primary NAAQS – Next Steps

- Summer 2015 – EPA to release final Data Requirements Rule
 - Not expecting major changes to EPA's preferred thresholds or deadlines as proposed
- September 2015 – Deadline for states to provide EPA data to consider for 2nd round designations
- January 2016 – EPA 120-day letters due re: 2nd round
 - May reflect changes due to availability of 2015 monitoring data and state-submitted information from September
- January 2016 – Deadline for states to determine which approach will be used for each DRR source for 3rd and 4th rounds of designations
 - Modeling – EPA will consider data submitted by 2017, designation by Dec. 2017
 - Monitoring – Monitors would collect data from 2017 through 2019, designation by Dec. 2020

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